

## ABSTRACT

5 A radar level gauge for measuring the level of a surface of a product stored in a tank by  
use of a radar, where said radar transmits microwaves towards said surface and receives  
microwaves reflected by said surface and wherein said radar is adapted to transmit and  
receive said microwaves within two widely separated frequency bands. Widely  
separated frequency bands are chosen to utilize the differences in attenuation due to  
foam on the surface and the differences in beam-width or other disturbances. The ratio  
10 between the center frequencies of the two widely separated frequency bands can be  
quantified as at least greater than 1.5:1 or preferably greater than 2:1.

(Fig. 2)